

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV112424\  
 Data File : VV038324.D  
 Acq On : 24 Nov 2024 12:04  
 Operator : SY/MD  
 Sample : P4884-02  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 25 00:22:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Mon Nov 25 00:21:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 229951   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.780  | 117   | 247003   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.178 | 152   | 104930   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 70134    | 3.979    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 79.600%  |
| 7) Chloroethane-d5            | 1.529  | 69    | 66372    | 4.655    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 93.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.053  | 65    | 32247    | 4.252    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 85.000%  |
| 20) 2-Butanone-d5             | 3.786  | 46    | 160423   | 45.499   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 91.000%  |
| 24) Chloroform-d              | 4.240  | 84    | 164365   | 4.805    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.200%  |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65    | 76044    | 4.955    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 99.000%  |
| 32) Benzene-d6                | 4.953  | 84    | 288129   | 4.513    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.200%  |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 97226    | 4.949    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 99.000%  |
| 41) Toluene-d8                | 7.236  | 98    | 230415   | 3.901    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 78.000%  |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79    | 30750    | 4.210    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 84.200%  |
| 46) 2-Hexanone-d5             | 8.018  | 63    | 105860   | 37.288   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 74.580%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.146 | 84    | 75981    | 4.556    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 91.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.554 | 152   | 89452    | 5.003    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 100.000% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 9) Trichlorofluoromethane     | 1.712  | 101   | 1025875  | 33.958   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066  | 101   | 17594    | 1.020    | ug/L   | 94       |
| 13) Acetone                   | 1.854  | 43    | 1666753  | 639.160  | ug/L   | 41       |
| 16) Methylene chloride        | 2.442  | 84    | 27735    | 1.481    | ug/L   | 90       |
| 17) Methyl tert-butyl Ether   | 2.699  | 73    | 93155    | 2.509    | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.105  | 63    | 116801   | 3.719    | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 3.809  | 96    | 3852     | 0.215    | ug/L   | 76       |
| 25) Chloroform                | 4.268  | 83    | 11628    | 0.346    | ug/L   | 98       |
| 27) 1,2-Dichloroethane        | 5.063  | 62    | 4612     | 0.252    | ug/L # | 72       |
| 29) 1,1,1-Trichloroethane     | 4.503  | 97    | 75945    | 2.564    | ug/L   | 99       |
| 34) Trichloroethene           | 5.831  | 95    | 42280    | 2.235    | ug/L   | 96       |
| 35) Methylcyclohexane         | 5.982  | 83    | 23021    | 0.860    | ug/L # | 19       |
| 37) 1,2-Dichloropropane       | 5.982  | 63    | 10698    | 0.616    | ug/L # | 86       |
| 42) Toluene                   | 7.323  | 91    | 25322    | 0.345    | ug/L   | 91       |
| 47) Tetrachloroethene         | 7.899  | 164   | 63466    | 4.176    | ug/L   | 95       |
| 49) Dibromochloromethane      | 7.899  | 129   | 58435    | 3.803    | ug/L # | 11       |
| 51) Chlorobenzene             | 8.815  | 112   | 15623    | 0.309    | ug/L   | 97       |
| 52) Ethylbenzene              | 8.950  | 91    | 6630     | 0.085    | ug/L   | 98       |
| 53) m,p-Xylene                | 9.079  | 106   | 1745     | 0.059    | ug/L   | 66       |

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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Nov 25 00:22:48 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Mon Nov 25 00:21:44 2024  
Response via : Initial Calibration

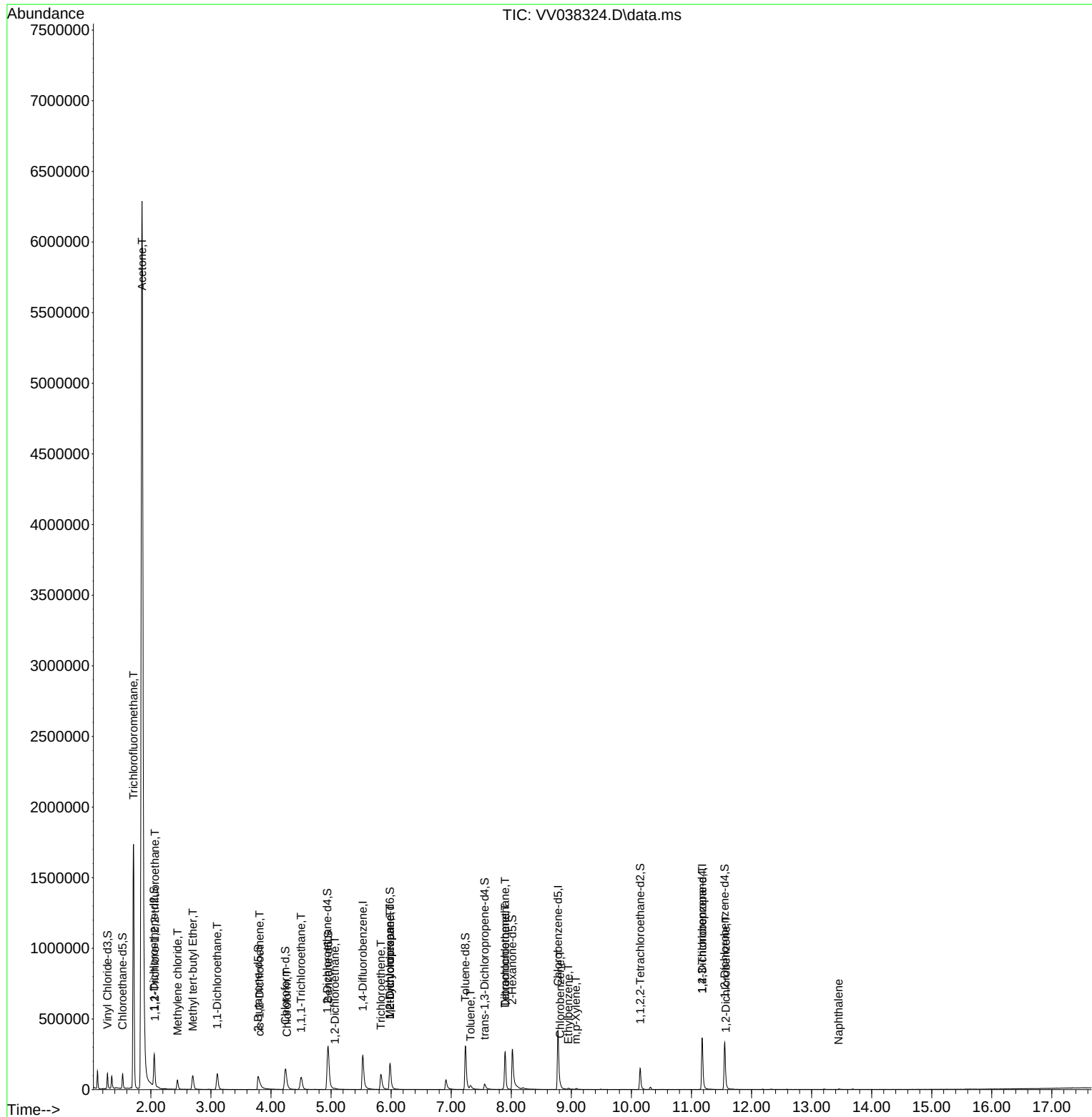
| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 61) 1,2,3-Trichloropropane | 11.178 | 75   | 12401    | 1.380 | ug/L # | 61       |
| 67) 1,2-Dichlorobenzene    | 11.574 | 146  | 5330     | 0.177 | ug/L   | 97       |
| 71) Naphthalene            | 13.451 | 128  | 5448     | 0.184 | ug/L # | 92       |

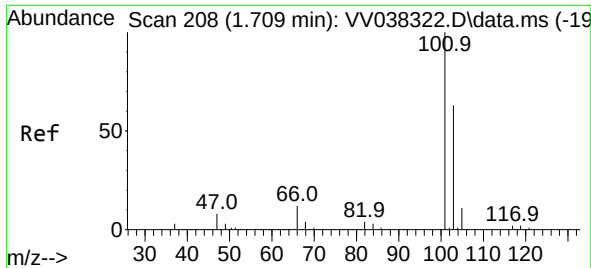
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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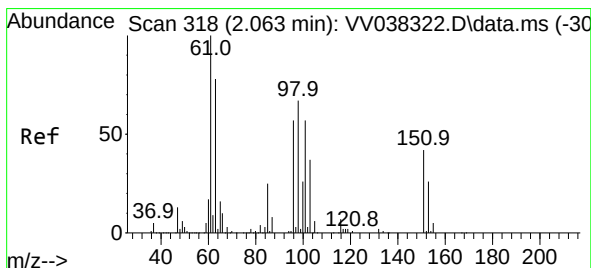
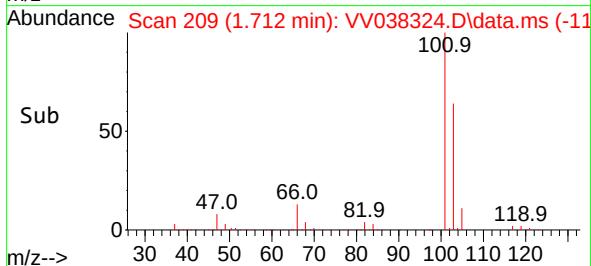
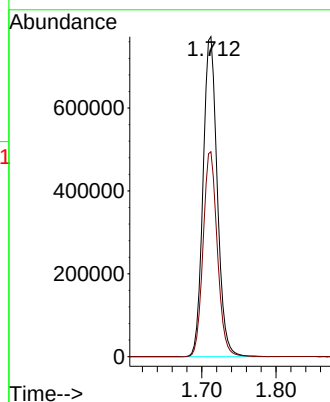
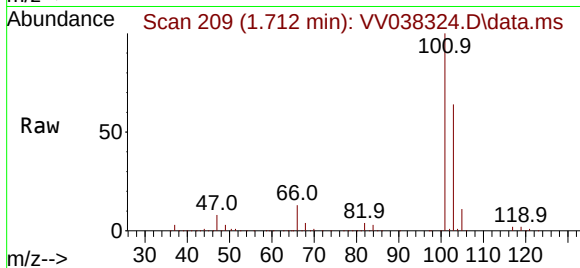




#9  
Trichlorofluoromethane  
Concen: 33.958 ug/L  
RT: 1.712 min Scan# 208  
Delta R.T. 0.003 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

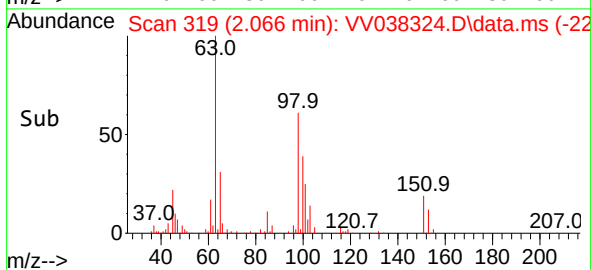
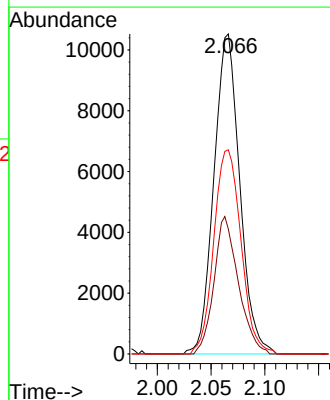
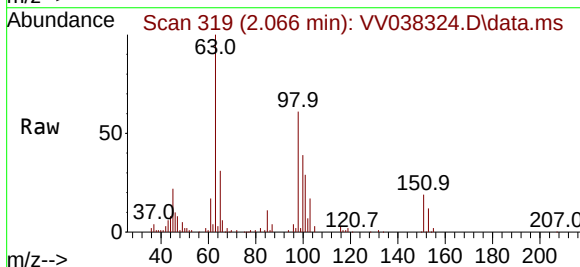
Instrument :  
MSVOA\_V  
ClientSampleId :

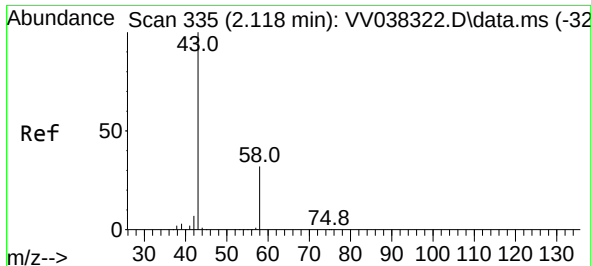
Tgt Ion:101 Resp: 1025875  
Ion Ratio Lower Upper  
101 100  
103 64.2 51.5 77.3



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 1.020 ug/L  
RT: 2.066 min Scan# 319  
Delta R.T. 0.003 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

Tgt Ion:101 Resp: 17594  
Ion Ratio Lower Upper  
101 100  
85 40.5 33.4 50.0  
151 67.0 58.8 88.2





#13

Acetone

Concen: 639.160 ug/L

RT: 1.854 min Scan# 21

Delta R.T. -0.264 min

Lab File: VV038324.D

Acq: 24 Nov 2024 12:04

Instrument :

MSVOA\_V

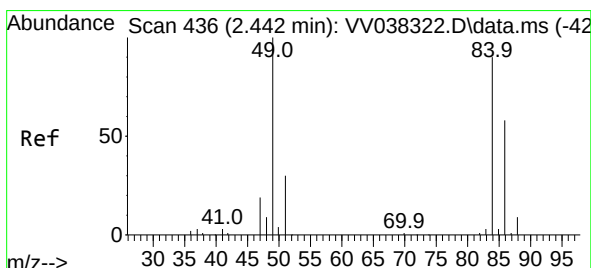
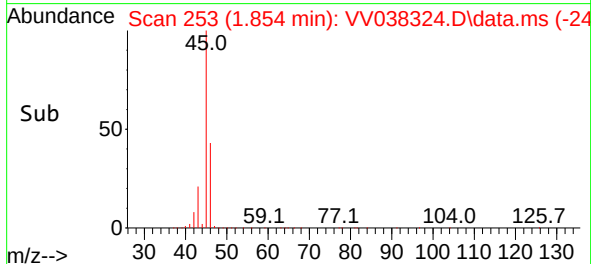
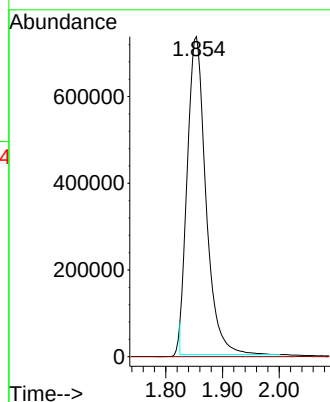
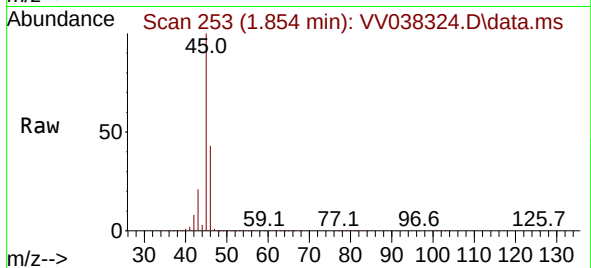
ClientSampleId :

Tgt Ion: 43 Resp: 1666753

Ion Ratio Lower Upper

43 100

58 0.0 0.0 67.2



#16

Methylene chloride

Concen: 1.481 ug/L

RT: 2.442 min Scan# 436

Delta R.T. -0.000 min

Lab File: VV038324.D

Acq: 24 Nov 2024 12:04

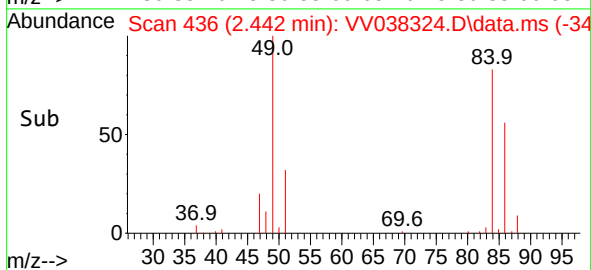
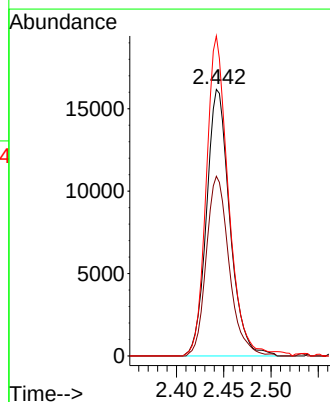
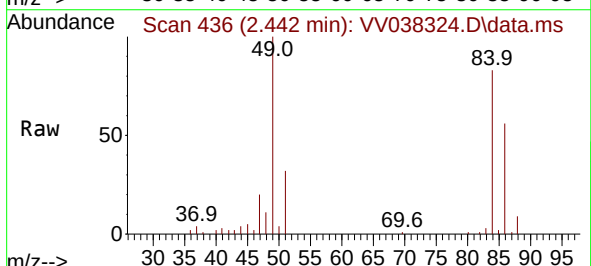
Tgt Ion: 84 Resp: 27735

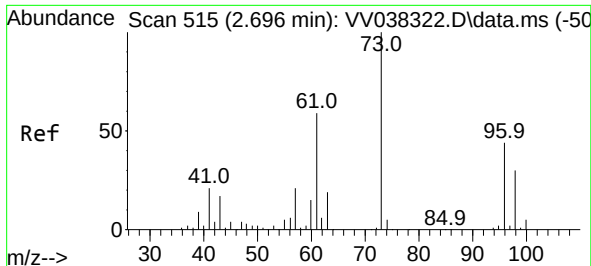
Ion Ratio Lower Upper

84 100

86 67.4 44.2 82.2

49 120.0 74.9 139.1

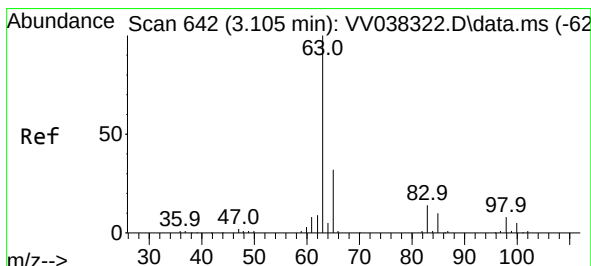
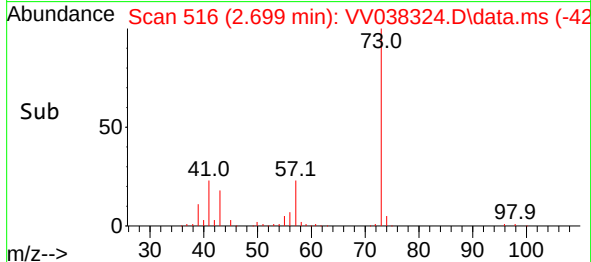
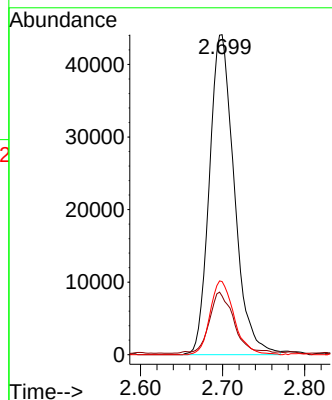
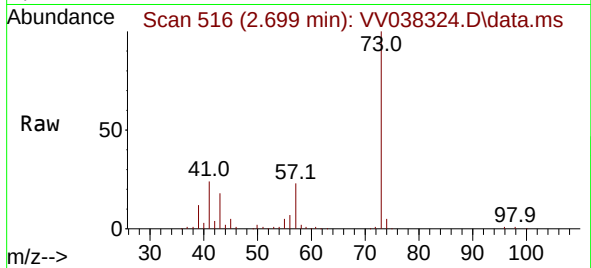




#17  
Methyl tert-butyl Ether  
Concen: 2.509 ug/L  
RT: 2.699 min Scan# 515  
Delta R.T. 0.003 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

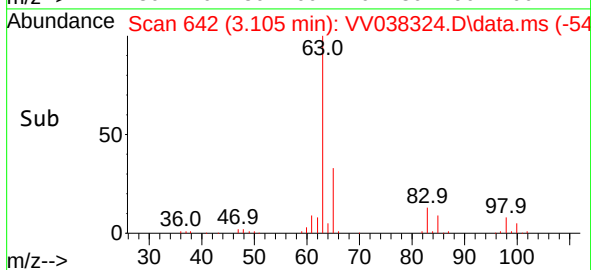
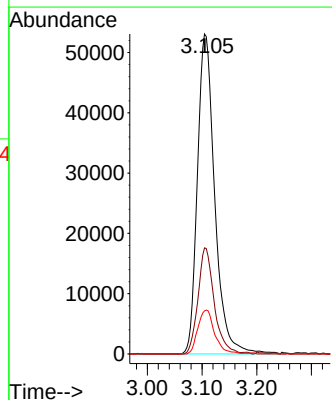
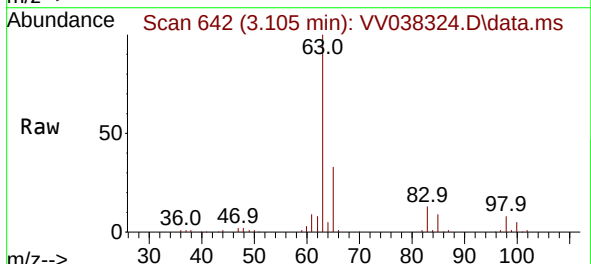
Instrument :  
MSVOA\_V  
ClientSampleId :

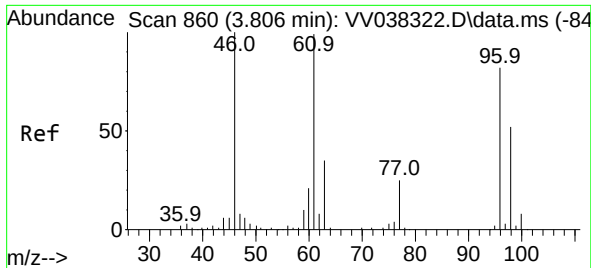
Tgt Ion: 73 Resp: 93155  
Ion Ratio Lower Upper  
73 100  
43 17.8 14.2 21.2  
57 22.2 17.6 26.4



#19  
1,1-Dichloroethane  
Concen: 3.719 ug/L  
RT: 3.105 min Scan# 642  
Delta R.T. -0.000 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

Tgt Ion: 63 Resp: 116801  
Ion Ratio Lower Upper  
63 100  
65 33.1 22.5 41.7  
83 13.4 10.1 18.9





#22

cis-1,2-Dichloroethene

Concen: 0.215 ug/L

RT: 3.809 min Scan# 861

Delta R.T. 0.003 min

Lab File: VV038324.D

Acq: 24 Nov 2024 12:04

Instrument :

MSVOA\_V

ClientSampleId :

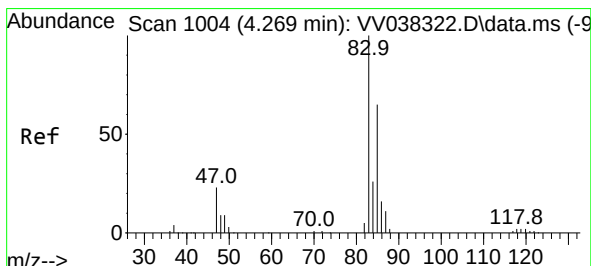
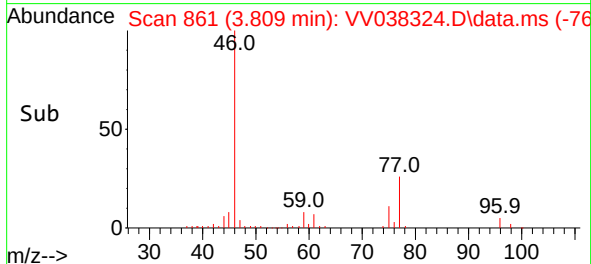
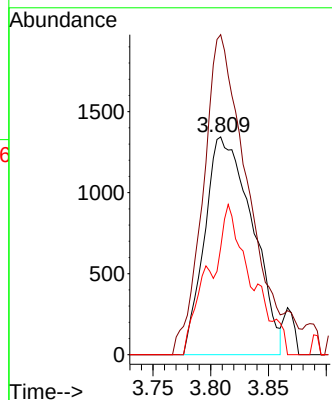
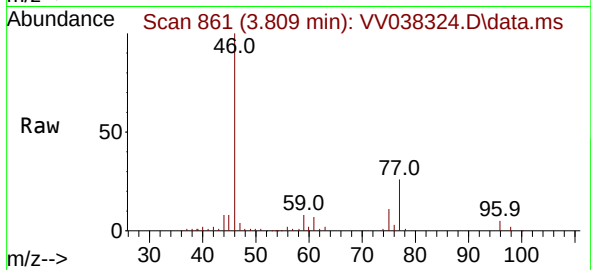
Tgt Ion: 96 Resp: 3852

Ion Ratio Lower Upper

96 100

61 146.9 82.7 153.5

98 49.2 46.3 85.9



#25

Chloroform

Concen: 0.346 ug/L

RT: 4.268 min Scan# 1004

Delta R.T. -0.000 min

Lab File: VV038324.D

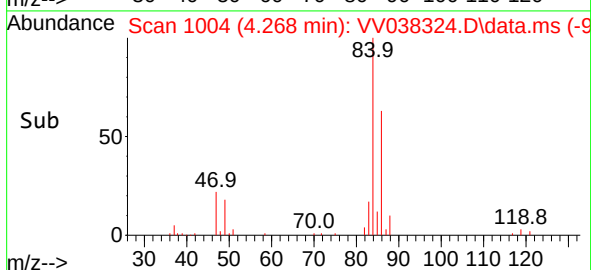
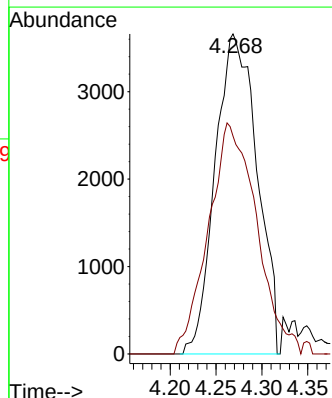
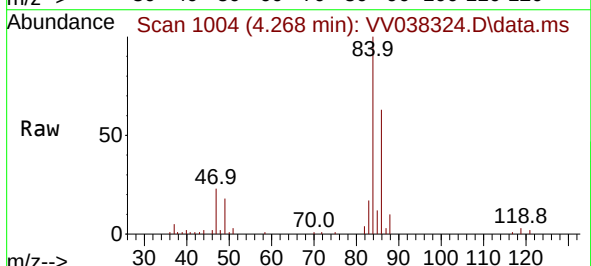
Acq: 24 Nov 2024 12:04

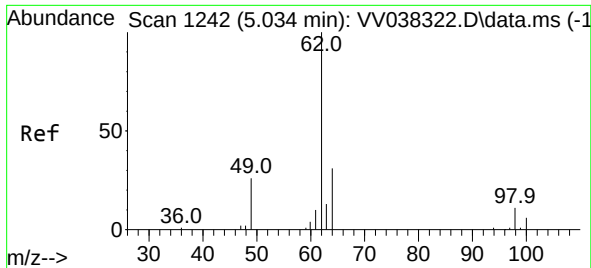
Tgt Ion: 83 Resp: 11628

Ion Ratio Lower Upper

83 100

85 68.1 46.5 86.3

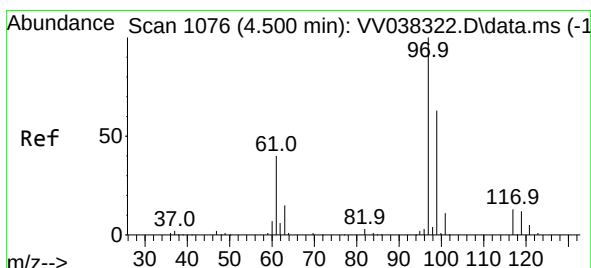
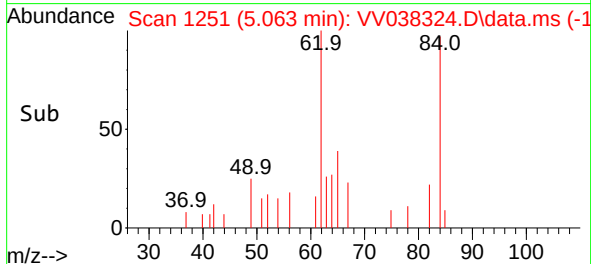
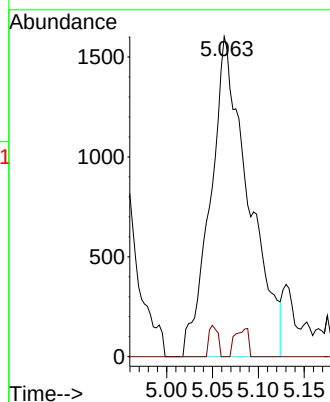
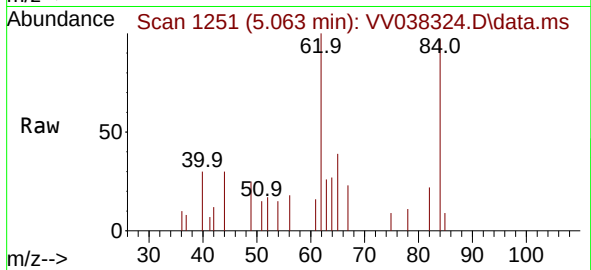




#27  
1,2-Dichloroethane  
Concen: 0.252 ug/L  
RT: 5.063 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

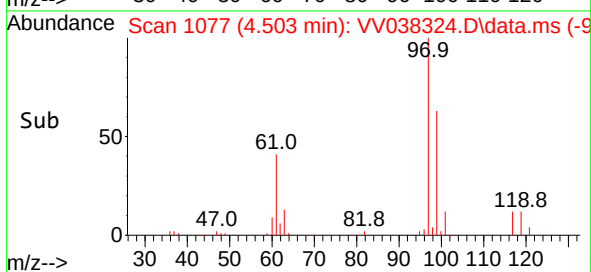
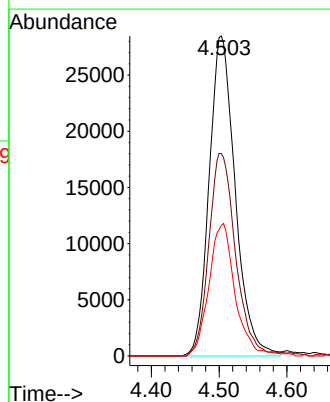
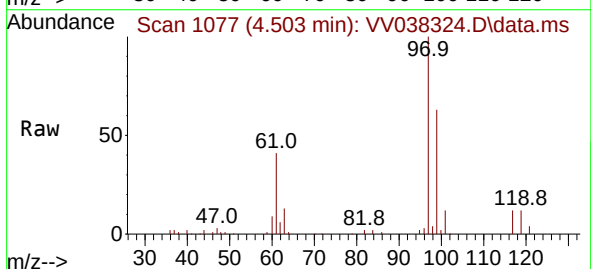
Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 62 Resp: 4612  
Ion Ratio Lower Upper  
62 100  
98 0.0 8.2 12.4#

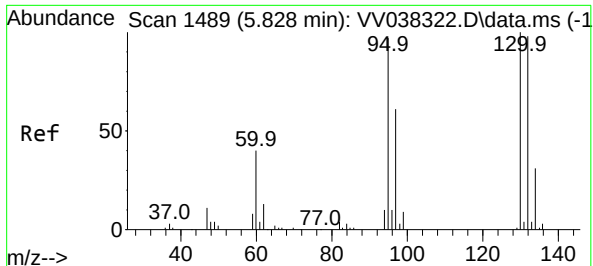


#29  
1,1,1-Trichloroethane  
Concen: 2.564 ug/L  
RT: 4.503 min Scan# 1077  
Delta R.T. 0.003 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

Tgt Ion: 97 Resp: 75945  
Ion Ratio Lower Upper  
97 100  
99 64.4 51.8 77.8  
61 41.6 32.2 48.2





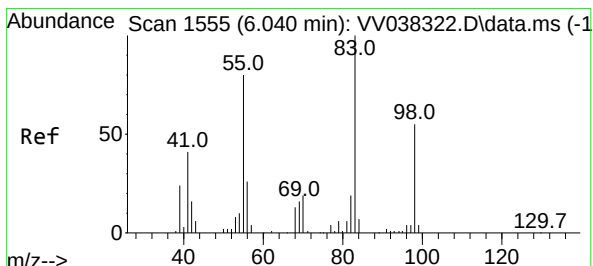
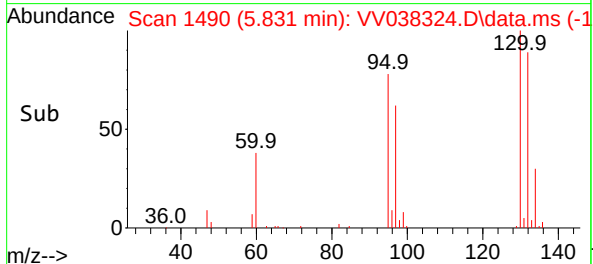
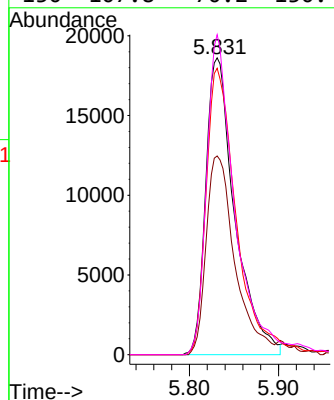
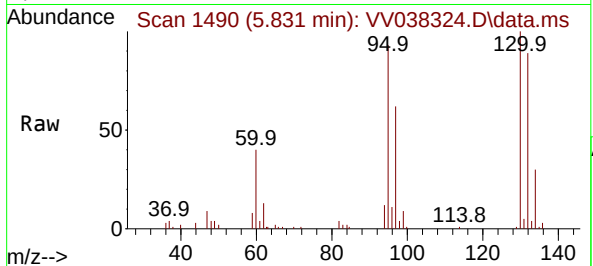


#34  
Trichloroethene  
Concen: 2.235 ug/L  
RT: 5.831 min Scan# 1489  
Delta R.T. 0.003 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 95 Resp: 42280

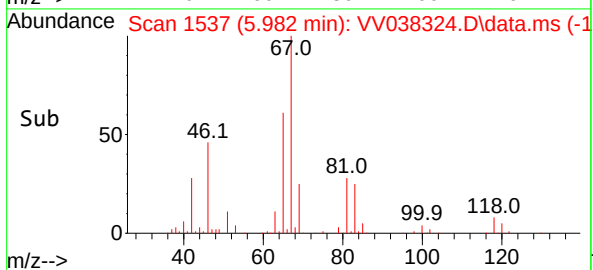
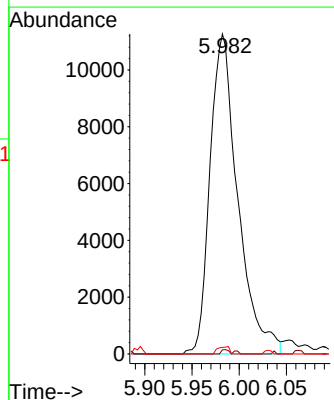
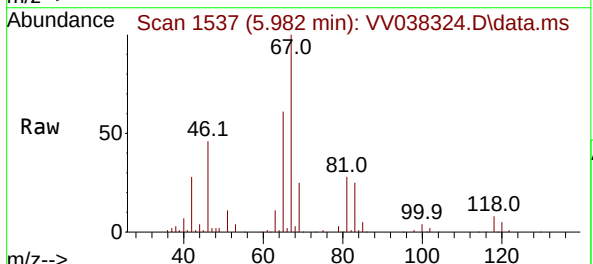
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 67.0  | 44.8  | 83.2  |
| 132 | 96.5  | 68.3  | 126.8 |
| 130 | 107.8 | 70.2  | 130.4 |

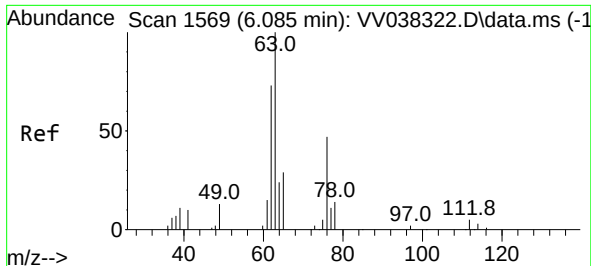


#35  
Methylcyclohexane  
Concen: 0.860 ug/L  
RT: 5.982 min Scan# 1537  
Delta R.T. -0.058 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

Tgt Ion: 83 Resp: 23021

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.3   | 59.7  | 89.5# |
| 98  | 0.9   | 39.0  | 58.4# |





#37

1,2-Dichloropropane

Concen: 0.616 ug/L

RT: 5.982 min Scan# 1

Delta R.T. -0.103 min

Lab File: VV038324.D

Acq: 24 Nov 2024 12:04

Instrument :

MSVOA\_V

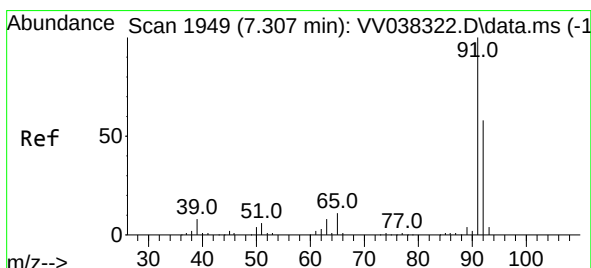
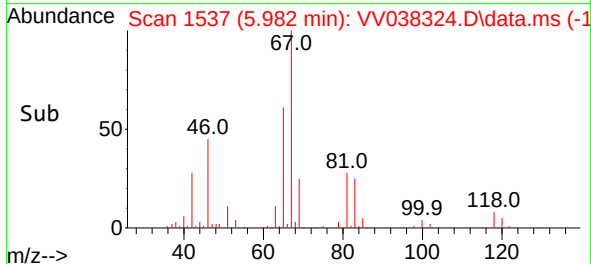
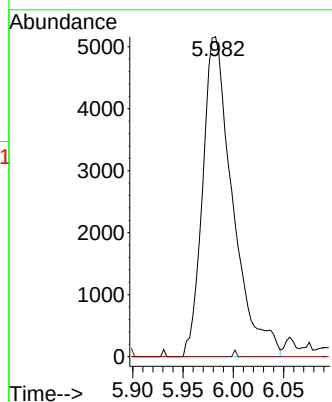
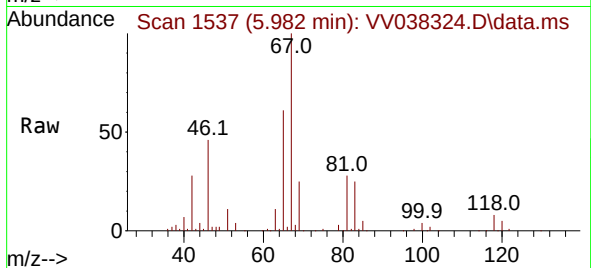
ClientSampleId :

Tgt Ion: 63 Resp: 10698

Ion Ratio Lower Upper

63 100

112 0.2 3.9 5.9#



#42

Toluene

Concen: 0.345 ug/L

RT: 7.323 min Scan# 1954

Delta R.T. 0.016 min

Lab File: VV038324.D

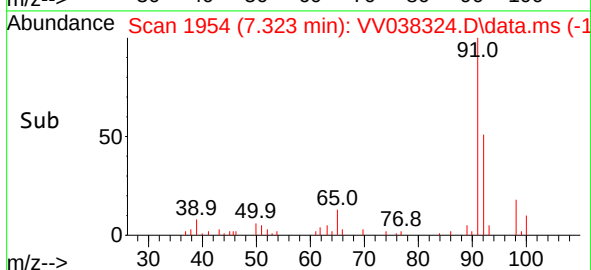
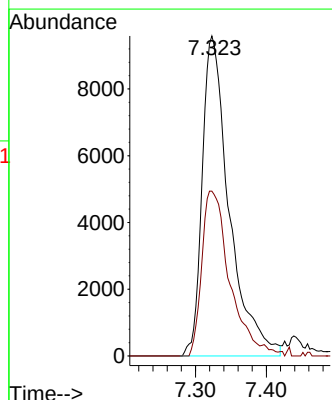
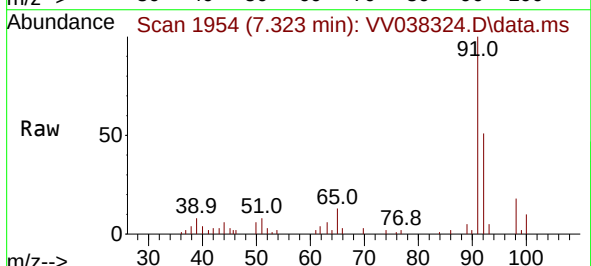
Acq: 24 Nov 2024 12:04

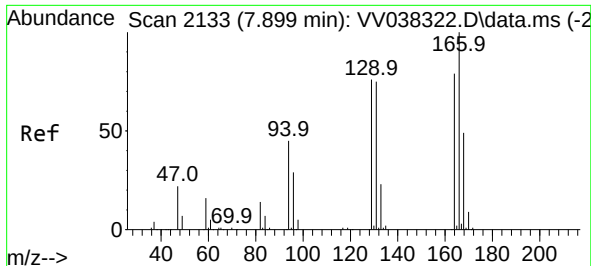
Tgt Ion: 91 Resp: 25322

Ion Ratio Lower Upper

91 100

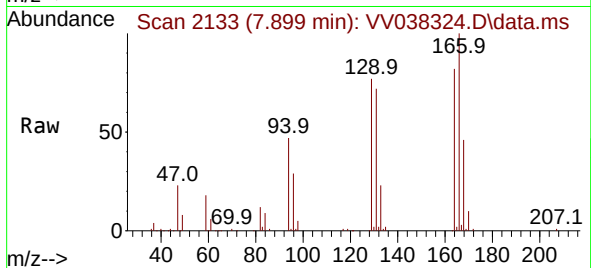
92 51.5 40.8 75.8



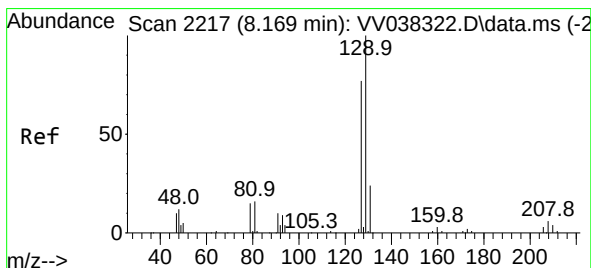
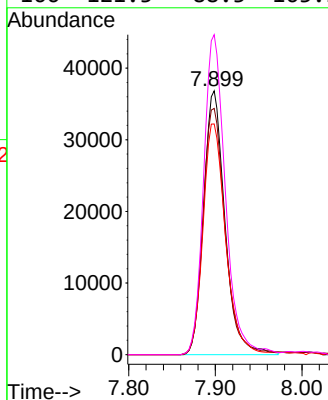
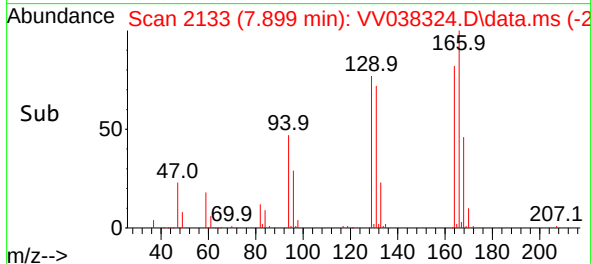


#47  
Tetrachloroethene  
Concen: 4.176 ug/L  
RT: 7.899 min Scan# 2133  
Delta R.T. -0.000 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

Instrument :  
MSVOA\_V  
ClientSampleId :

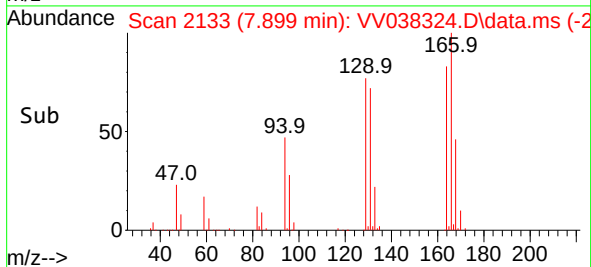
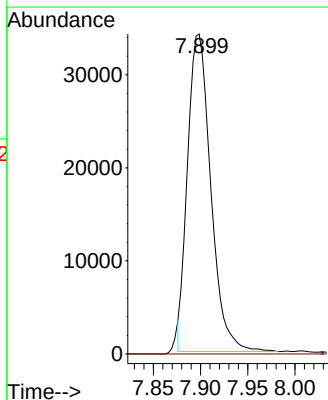
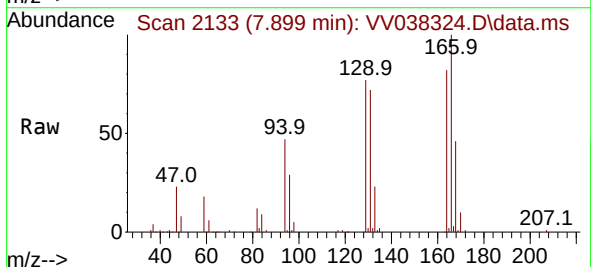


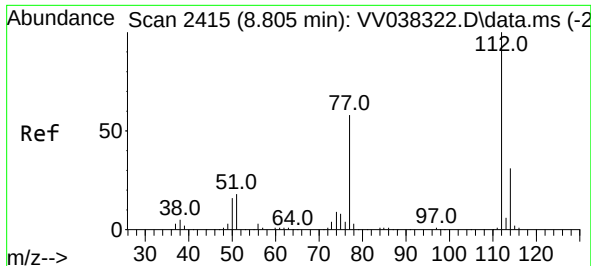
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 63466 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 129       | 93.3  | 68.5  | 127.1 |
| 131       | 87.4  | 64.8  | 120.4 |
| 166       | 121.3 | 88.3  | 163.9 |



#49  
Dibromochloromethane  
Concen: 3.803 ug/L  
RT: 7.899 min Scan# 2133  
Delta R.T. -0.270 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 129   | Resp: | 58435 |
| Ion Ratio | Lower | Upper |       |
| 129       | 100   |       |       |
| 127       | 0.0   | 53.5  | 99.3# |

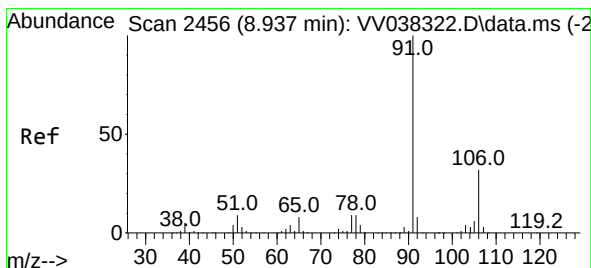
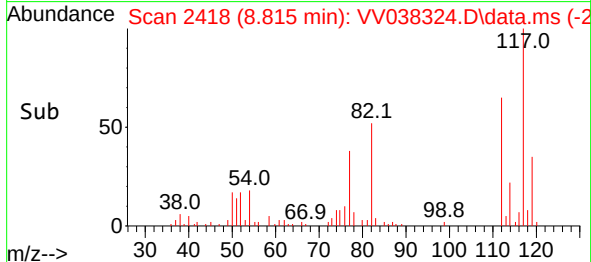
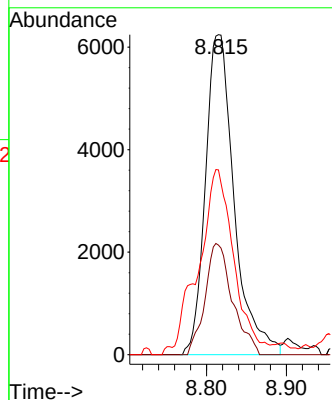
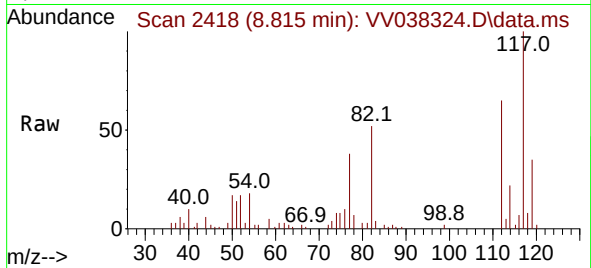




#51  
Chlorobenzene  
Concen: 0.309 ug/L  
RT: 8.815 min Scan# 2415  
Delta R.T. 0.009 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

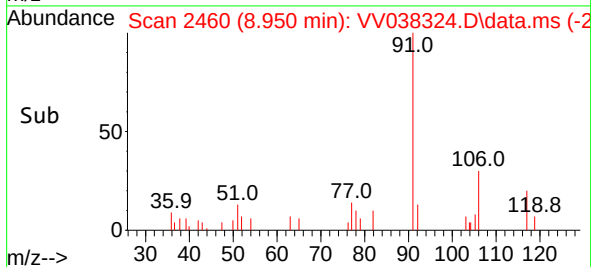
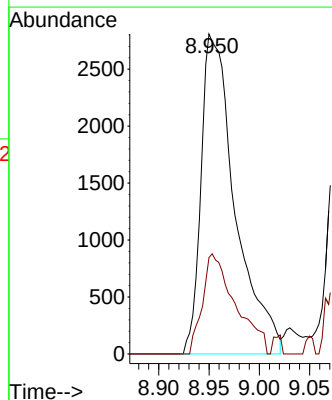
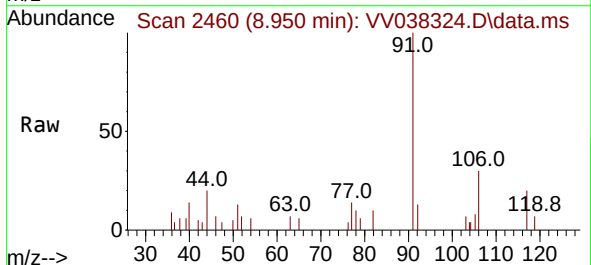
Instrument :  
MSVOA\_V  
ClientSampleId :

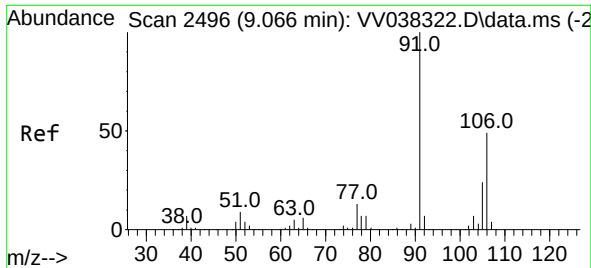
Tgt Ion:112 Resp: 15623  
Ion Ratio Lower Upper  
112 100  
114 34.2 22.0 40.8  
77 57.7 45.0 67.4



#52  
Ethylbenzene  
Concen: 0.085 ug/L  
RT: 8.950 min Scan# 2460  
Delta R.T. 0.013 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

Tgt Ion: 91 Resp: 6630  
Ion Ratio Lower Upper  
91 100  
106 30.2 21.8 40.4

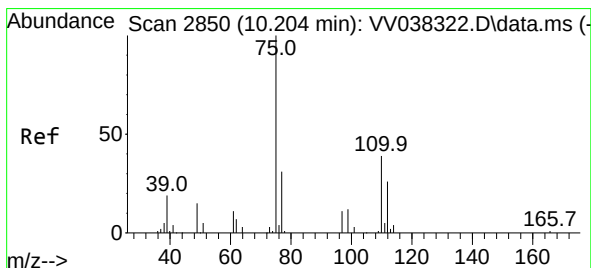
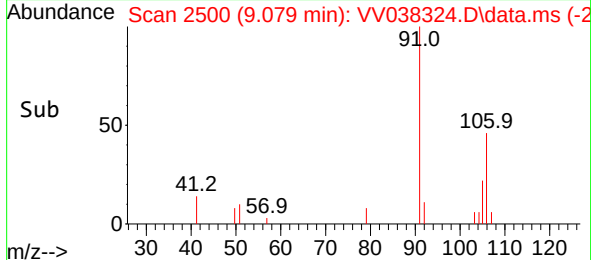
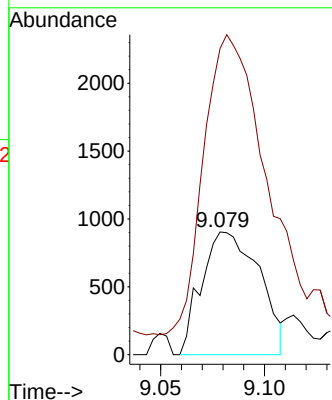
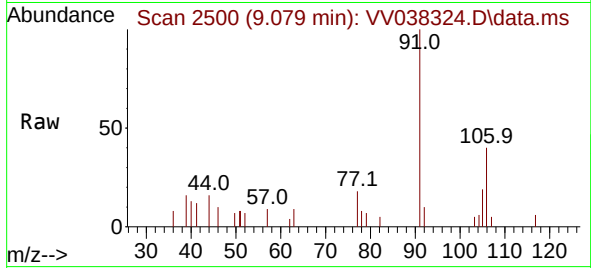




#53  
m,p-Xylene  
Concen: 0.059 ug/L  
RT: 9.079 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

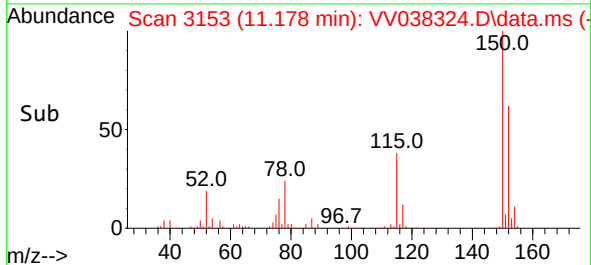
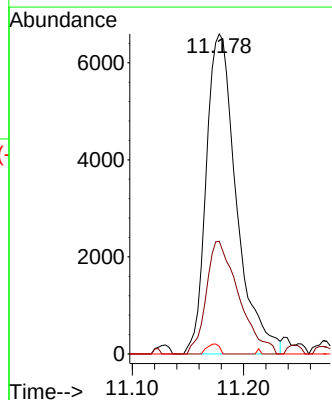
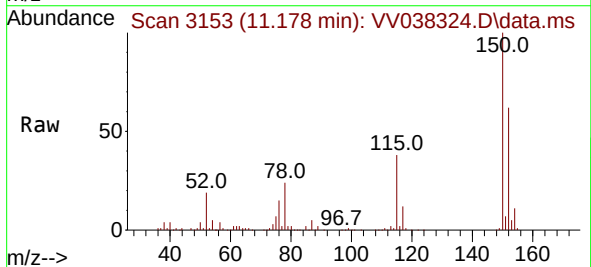
Instrument :  
MSVOA\_V  
ClientSampleId :

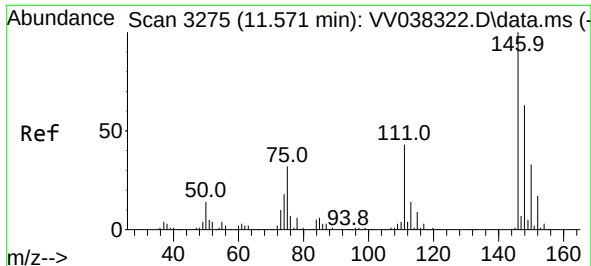
Tgt Ion:106 Resp: 1745  
Ion Ratio Lower Upper  
106 100  
91 249.6 138.7 257.5



#61  
1,2,3-Trichloropropane  
Concen: 1.380 ug/L  
RT: 11.178 min Scan# 3153  
Delta R.T. 0.974 min  
Lab File: VV038324.D  
Acq: 24 Nov 2024 12:04

Tgt Ion: 75 Resp: 12401  
Ion Ratio Lower Upper  
75 100  
77 37.8 26.4 39.6  
110 1.3 32.3 48.5#





#67

1,2-Dichlorobenzene

Concen: 0.177 ug/L

RT: 11.574 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV038324.D

Acq: 24 Nov 2024 12:04

Instrument :

MSVOA\_V

ClientSampleId :

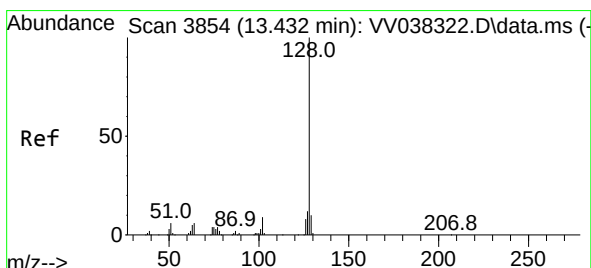
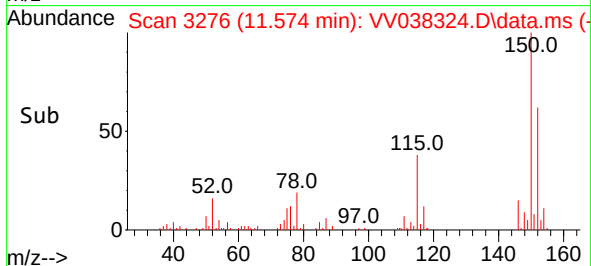
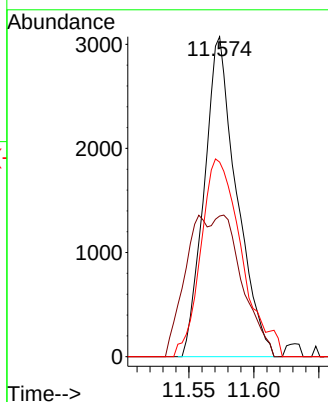
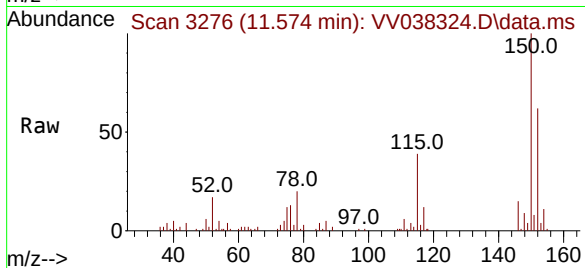
Tgt Ion:146 Resp: 5330

Ion Ratio Lower Upper

146 100

111 44.0 34.2 51.2

148 60.8 51.0 76.4



#71

Naphthalene

Concen: 0.184 ug/L

RT: 13.451 min Scan# 3860

Delta R.T. 0.019 min

Lab File: VV038324.D

Acq: 24 Nov 2024 12:04

Tgt Ion:128 Resp: 5448

Ion Ratio Lower Upper

128 100

129 7.8 8.5 12.7#

127 9.3 10.1 15.1#

